## CLAIMS

What is claimed is:

1. An in-line seat recliner assembly for controllably adjusting the angular position of a seat back relative to a seat bottom, said recliner comprising:

a drive assembly having an input axis;

a driven assembly adapted to be coupled with one of the seat back and the seat bottom and having an output axis generally parallel to said input axis; and

a transmission assembly disposed between and operably connecting said drive assembly and said driven assembly.

- 2. The seat recliner assembly of Claim 1, wherein said drive assembly includes an actuator.
- 3. The seat recliner assembly of Claim 2, wherein said actuator includes a bi-directional electric motor.
- 4. The seat recliner assembly of Claim 2, wherein said drive assembly includes an actuator cable driven by said actuator.

- 5. The seat recliner assembly of Claim 3, wherein said drive assembly includes an input shaft driven by said actuator cable and rotatable about said input axis.
- 6. The seat recliner assembly of Claim 1, wherein said driven assembly includes a threaded output shaft rotatable about said output axis and a screw nut disposed thereon, wherein said screw nut is reciprocally and threadably moveable along said threaded output shaft.
- 7. The seat recliner assembly of Claim 6, wherein said driven assembly further includes a seat arm having a first end attached to the seat back and a second end pivotally connected to said screw nut.
- 8. The seat recliner assembly of Claim 1, wherein said transmission assembly includes a gear train having a first helical gear driving a second helical gear, said first helical gear rotatable about said input axis, and said second helical gear rotatable about said output axis.
- 9. The seat recliner assembly of Claim 1, further comprising an alignment assembly.
- 10. The seat recliner assembly of Claim 9, wherein said alignment assembly includes first and second alignment plates.

- 11. The seat recliner assembly of Claim 1, further comprising a housing for retaining said gear train.
- 12. The seat recliner assembly of Claim 11, wherein said housing is mountable to connect said recliner assembly to the other of the seat back and the seat bottom.

13. A vehicle seat assembly comprising:

a seat bottom;

a seat back coupled with said seat bottom and capable of pivotal adjustment relative to said seat bottom;

a seat recliner assembly comprising a drive assembly having an input axis, a driven assembly adapted to be coupled with one of said seat back and said seat bottom and having an output axis generally parallel to said input axis, and a transmission assembly disposed between and operably connecting said drive assembly and said driven assembly.

- 14. The vehicle seat assembly of Claim 13, further comprising a housing for retaining said transmission assembly.
- 15. The vehicle seat assembly of Claim 14, wherein said housing is mountable to connect said seat recliner assembly to the other of said seat back and said seat bottom.
- 16. The vehicle seat assembly of Claim 13, wherein said drive assembly includes an actuator.
- 17. The vehicle seat assembly of Claim 16, wherein said actuator includes a bi-directional electric motor.

- 18. The vehicle seat assembly of Claim 16, wherein said drive assembly includes an actuator cable driven by said actuator.
- 19. The vehicle seat assembly of Claim 18, wherein said drive assembly includes an input shaft driven by said actuator cable and rotatable about said input axis.
- 20. The vehicle seat assembly of Claim 13, wherein said driven assembly includes a threaded output shaft rotatable about said output axis and a screw nut disposed thereon, wherein said screw nut is threadably moveable along said threaded output shaft from a first position to a second position.
- 21. The vehicle seat assembly of Claim 20, wherein said driven assembly further includes a seat arm having a first end attached to the seat back and a second end pivotally connected to said screw nut.
- 22. The vehicle seat assembly of Claim 13, wherein said transmission assembly includes a gear train having a first helical gear driving a second helical gear, said first helical gear having a rotational axis common with said input axis, and said second helical gear having a rotational axis common with said output axis.

- 23. The vehicle seat assembly of Claim 13, further comprising an alignment assembly.
- 24. The vehicle seat assembly of Claim 23, wherein said alignment assembly includes first and second alignment plates.